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Washington, D.C. 20231Case Docket No. P7355-9023
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Transmitted herewith for filing under 37 C.F.R. §1.53(b) is the patent application of:
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JC639 U.S. PTO
10/01/99
109894

For: IMAGE INFORMATION PREPARATION SYSTEM, IMAGE INFORMATION PRESENTATION
 METHOD, MEDIUM STORING IMAGE INFORMATION PRESENTATION SYSTEM PROGRAM,
 AND SIGNAL THEREFOR

- Specification (55 pages)
- 14 sheets of drawings
- Declaration and Power of Attorney
- Return Receipt Postcard
- An Assignment of the invention to SANYO ELECTRIC CO., LTD. with PTO-1595
- A certified copy of Japanese application(s) No.(s) 10-280885, 10/02/98; 10-280884, 10/02/98
- Preliminary Amendment
- A filing fee, calculated as shown below:

	(Col. 1)	(Col. 2)
FOR:	No. Filed	No. Extra
BASIC FEE		
TOTAL CLAIMS	20 - 20 =	* 0
INDEP CLAIMS	8 - 3 =	* 5
<input checked="" type="checkbox"/> MULTIPLE DEPENDENT CLAIM PRESENTED		

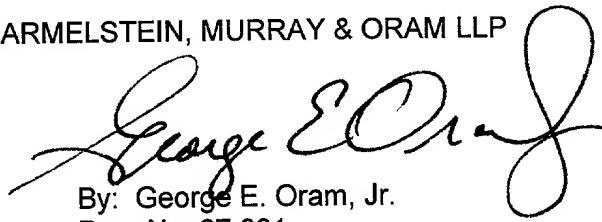
Small Entity		Other Than A Small Entity	
RATE	FEE	RATE	FEE
	\$380		\$760
x 9 =		x 18 =	0
x 39 =		x 78 =	390
+130 =		+260 =	260
TOTAL		TOTAL	\$1410

*If the difference in Col. 1 is less than zero,
 enter "0" in Col. 2

A check in the amount of \$ 1450.00 is enclosed to cover the filing fee and assignment recordation. The Commissioner is hereby authorized to charge payment for any additional filing fees associated with this communication or credit any overpayment to Deposit Account No. 14-1060.

Respectfully submitted,

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 Drawings (14 sheets)/Assignment/PTO-1595 Form/Return Receipt Postcard
 Preliminary Amendment

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

TAIMA et al.

Serial No.: New Application

Group Art Unit:

Filed: October 1, 1999

Examiner:

For: IMAGE INFORMATION PREPARATION SYSTEM, IMAGE INFORMATION PRESENTATION METHOD, MEDIUM STORING IMAGE INFORMATION PRESENTATION SYSTEM PROGRAM, AND SIGNAL THEREFOR

PRELIMINARY AMENDMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

October 1, 1999

Sir:

Prior to calculation of the filing fee and prior to the examination of this application, please amend the above-identified application as follows:

IN THE CLAIMS:

Please amend the claims as follows:

Claim 8, line 2, delete "any one of claims 5 to 7" and insert therefor

-- claim 5 or 6 --.

Claim 11, line 2 , delete "any one of claims 5 to 10" and insert therefor

-- claim 5 --.

REMARKS

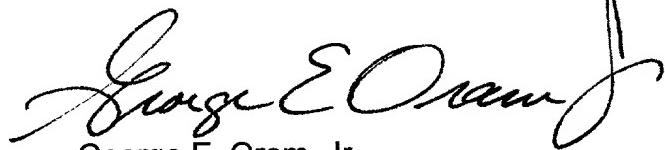
The above amendment to the claims have been made to correct the multiple dependency of the claims and to put the application in better condition for examination.

No new matter has been added.

In the event that any fees are due in connection with this paper, please
charge our Deposit Account No. 14-1060.

Respectfully submitted,

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IMAGE INFORMATION PRESENTATION SYSTEM, IMAGE INFORMATION
PRESENTATION METHOD, MEDIUM STORING IMAGE INFORMATION
PRESENTATION SYSTEM PROGRAM, AND SIGNAL THEREFOR

5

BACKGROUND OF THE INVENTION

This invention relates to an image presentation system for presenting image information of a still image input from an image input unit such as a scanner or a camera, a moving image prepared in a computer, and the like.

10 In a related art, for example, the Unexamined Japanese Patent Application No. Hei 5-290143 describes an image information presentation system that can easily execute a page move without any error at the presentation execution time.

More particularly, the image information presentation system comprises information storage means for storing image information comprising full-size images of image size displayed at the presentation execution time and listed images reduced to the image size displayed at the image retrieval time and scenario information describing image names displayed at the presentation execution time and the display order, image display means for displaying the image information, a central control unit for displaying the image information in order according to the scenario information, and image retrieval means for starting a function for listing the listed images at any point in time while 25 the image information is being presented and continuing the

scenario starting at any desired listed image when the listed image is selected from among the listed images.

However, not only still images, but also moving images are used as image information used for presentation. In the 5 above-described related art, reduced and listed images, which will be hereinafter referred to as thumbnails, are all displayed as still images. That is, as image information of a moving image, the still image representing the moving image and other still images are displayed side by side and when the still image 10 representing the moving image is selected, the screen is changed to a full-size screen and the moving image is displayed.

Therefore, whether an image is a moving or still image cannot be determined at a glance and the operation of checking whether or not each image is a moving image is required. Since 15 the moving image cannot directly be viewed, it cannot be compared with image information of other still images, etc., on display for selection and selection work consumes time.

In another related art, for example, the Unexamined Japanese Patent Application Publication No. Hei 8-180037 20 describes a document preparation support system for even the user who is unfamiliar with presentation or document preparation to prepare a high-quality document smoothly.

More particularly, in parallel with placement of parts such as titles, shape change, and text pattern change processing 25 executed by the user, the document preparation support system uses

the visual comfort degree of the layout concerning the parts, the shapes, and the text pattern, namely, a predetermined evaluation criterion for the layout of the parts in the prepared document and the like and calculates an evaluation value quantitatively

5 representing the difference from the ideal state defined on the evaluation criterion or the same degree as the ideal state, then informs the user of the evaluation value by an image or voice.

The user can use the provided evaluation result as one guideline to evaluate the beauty and visibility of the balance,
10 etc., of placement, shapes, and sizes of the text, graphs, patterns, etc., of the prepared document.

Even the user who is unfamiliar with presentation or document preparation can place the title, text, graphs, photos, etc., in balance and prepare a high-quality document smoothly.

15 However, to prepare the presentation document, particularly to read images, work of specifying one image at a time and reading it becomes necessary. As the images to be read increase, time and effort are spent on the work and it takes time in editing; it is very inconvenient.

20 Since pages are related to each other in a hierarchical structure, in an edit mode capable of displaying only one page at a time, the operator specifies the next image one page at a time and executes editing while imaging the whole concatenation of the pages in his or her head, thus a lot of time and labor is
25 spent on the edit work.

SUMMARY OF THE INVENTION

It is therefore a first object of the invention to solve the problems.

5 According to aspect 1 of the invention, there is provided an image information presentation system comprising:

material storage means for storing image information including a still image and a moving image,

display means for displaying the image information,

10 display control means for displaying image information in a predetermined size on the display means, and

listing control means for reducing the image information stored in the material storage means and displaying a plurality of images in a list format on the display means,

15 the listing control means including:

 a determination section for determining whether the reduced information is a still or moving image,

 a still image reduction section, if the determination section determines that the image information is

20 a still image, for performing processing for producing reduced display of the image,

 a moving image reduction section, if the determination section determines that the image information is a moving image, for performing processing for producing reduced display of the image and driving the moving image in this state,

and

a listing section for listing the image information provided by the still image reduction section and the moving image reduction section on the display means.

5 According to aspect 2 of the invention, there is provided an image information presentation method in an image information presentation system comprising: providing material storage means for storing image information including a still image and a moving image, providing display means for displaying the image information, providing display control means for displaying image information in a predetermined size on the display means,

10 the image information presentation method comprising:
 the first step of reading the image information from the material storage means,

15 the second step of determining whether the read information is a still or moving image,

 the third step of performing processing for producing reduced display of the image, if it is determined at the second step that the image information is a still image,

20 the fourth step of performing processing for producing reduced display of the image, if it is determined at the second step that the image information is a moving image,

 the fifth step of driving the moving image in the reduced display processing state at the fourth step, and

25 the sixth step of listing the image information provided

at the third and fourth steps on the display means.

According to aspect 3 of the invention, there is provided a computer data signal in a carrier wave for executing an image information presentation system comprising material storage means for storing image information including a still image and a moving image, display means for displaying the image information, and display control means for displaying image information in a predetermined size on the display means to perform:

the computer data signal being for executing the steps
10 comprising:

the first step of reading the image information from the material storage means,

the second step of determining whether the read information is a still or moving image,

15 the third step of performing processing for producing reduced display of the image, if it is determined at the second step that the image information is a still image,

the fourth step of performing processing for producing reduced display of the image, if it is determined at the second 20 step that the image information is a moving image,

the fifth step of driving the moving image in the reduced display processing state at the fourth step, and

the sixth step of listing the image information provided at the third and fourth steps on the display means.

25 According to aspect 4 of the invention, there is provided

a medium storing an image information presentation system program for reading image information including a still image and a moving image, stored in material storage means and listing the read image information,

5 the program being for executing the steps comprising:
 the first step of reading the image information from the
material storage means,

 the second step of determining whether the read
information is a still or moving image,

10 the third step of performing processing for producing
reduced display of the image, if it is determined at the second
step that the image information is a still image,

 the fourth step of performing processing for producing
reduced display of the image, if it is determined at the second
15 step that the image information is a moving image,

 the fifth step of driving the moving image in the reduced
display processing state at the fourth step, and

 the sixth step of listing the image information provided
at the third and fourth steps on the display means.

20 Further, it is therefore a second object of the invention
to solve the problems.

According to aspect 5 of the invention, there is provided
an image information presentation system comprising:

 material storage means for storing image information of
25 a still image and a moving image,

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PATENT SPECIFICATION

material listing means for listing the image information in the material storage means on display means,

image specification means for enabling specification of more than one piece of the image information listed on the display
5 means, and

presentation preparation means for reading all images specified with the image specification means in batch into templates having related pages of a template as one page into which images are inserted for preparing an image information
10 presentation document.

According to aspect 6 of the invention, there is provided the image information presentation system as in aspect 5, wherein

the presentation preparation means reads the specified images with the image specification means in order starting at
15 the specified page of the template.

According to aspect 7 of the invention, there is provided the image information presentation system as in aspect 5 or 6, further comprising:

20 presentation storage means for storing the image information presentation document prepared in the presentation preparation means, and

presentation listing means for listing the image information presentation documents stored in the presentation storage means.

25 According to aspect 8 of the invention, there is provided

the image information presentation system as in any one of aspects 5 to 7, wherein

the material storage means also stores a folder of a set of the image information placed in a hierarchical structure, and

when images are read and an image information presentation document is prepared with the folder specified, the presentation preparation means makes the hierarchical structure of the templates the same as that of the folder and prepares the image information presentation document.

According to aspect 9 of the invention, there is provided the image information presentation system as in aspect 8, further comprising:

presentation hierarchy display means for listing the pages of the image information presentation document in a hierarchical structure and displaying the pages at the same level in overlapping relation.

According to aspect 10 of the invention, there is provided the image information presentation system as in aspect 9, further comprising:

edit means for performing editing including exchanging and replacing the image information read into the pages in the hierarchy display state of the presentation hierarchy display means.

According to aspect 11 of the invention, there is provided the image information presentation system as in any one of aspects

5 to 10, further comprising:

name read means for automatically reading titles of the pages of the templates, wherein

the material storage means stores image information with

5 a file name, and

the name read means reads the file name of the image information as the title of the page of the template into which the image information is read.

According to aspect 12 of the invention, there is provided

10 an image information presentation method comprising:

the first step of listing from material storage means for storing image information including a still image and a moving image, the image information on display means,

15 the second step of specifying more than one piece of the image information listed at the first step with image specification means, and

20 the third step of reading all image information specified at the second step in batch into templates having related pages of a template as one page into which images are inserted and preparing an image information presentation document by presentation preparation means.

According to aspect 13 of the invention, there is provided the image information presentation method as in aspect 12, further comprising:

25 the fourth step, when the image information pieces

specified at the second step are a folder of a set of image information in a hierarchical structure, of making the hierarchical structure of the templates the same as that of the folder, reading the image information, and preparing the image
5 information presentation document by the presentation preparation means.

According to aspect 14 of the invention, there is provided a computer data signal embodied in a carrier wave for executing an image information presentation system,

10 the computer data signal being for executing the steps comprising:

the first step of listing from material storage means for storing image information including a still image and a moving image, the image information on display means,

15 the second step of specifying more than one piece of the image information listed at the first step with image specification means, and

the third step of reading all image information specified at the second step in batch into templates having related pages
20 of a template as one page into which images are inserted and preparing an image information presentation document by presentation preparation means.

According to aspect 15 of the invention, there is provided a medium storing an image information presentation system program
25 for executing:

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the first step of listing from material storage means for storing image information including a still image and a moving image, the image information on display means,

5 the second step of specifying more than one piece of the image information listed at the first step with image specification means, and

10 the third step of reading all image information specified at the second step in batch into templates having related pages of a template as one page into which images are inserted and preparing an image information presentation document by presentation preparation means.

According to aspect 16 of the invention, there is provided the medium storing the image information presentation system program as in aspect 15, wherein the program further comprising:

15 the fourth step, when the image information pieces specified at the second step are a folder of a set of image information in a hierarchical structure, of making the hierarchical structure of the templates the same as that of the folder, reading the image information, and preparing the image
20 information presentation document by the presentation preparation means.

BRIEF DESCRIPTION OF THE DRAWINGS

In the accompanying drawings:

25 FIG. 1 is a block diagram of an image information

presentation system of the invention;

FIG. 2 is a detailed control block diagram of listing control means in FIG. 1;

FIG. 3 is a flowchart to show the operation of the image information presentation system of the invention;

FIG. 4 is an operation flowchart concerning presentation display in FIG. 3;

FIG. 5 is an operation flowchart concerning listing in FIG. 3;

FIG. 6 is an operation flowchart concerning listing edit in FIG. 3;

FIG. 7 is a drawing to show an initial screen of screens displayed on display means;

FIG. 8 is a drawing to show an example of image information comprising a still image inserted into a template on a screen displayed on the display means;

FIG. 9 is a drawing to show a listing screen of screens displayed on the display means;

FIG. 10 is a block diagram of an image information presentation system of the invention;

FIG. 11 is a flowchart to show the operation of the image information presentation system of the invention;

FIG. 12 is an operation flowchart concerning a new preparation step in FIG. 11;

FIG. 13 is an operation flowchart concerning a read step

in FIG. 12;

FIG. 14 is a drawing to show an initial screen of screens displayed on display means;

FIG. 15 is a drawing to show a listing screen of screens
5 displayed on the display means;

FIG. 16 is a drawing to show a folder listing screen of screens displayed on the display means;

FIG. 17 is a drawing to show an edit selection screen of screens displayed on the display means;

10 FIG. 18 is a drawing to show an example of image information stored in a hierarchical structure in folder;

FIG. 19 is a drawing to show a listing screen of the hierarchical structure in FIG. 18; and

15 FIG. 20 is a drawing to show an example of a hierarchical structure of presentation documents.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring now to the accompanying drawings, there is shown a preferred embodiment of the invention.

20 The term "template" used throughout the specification refers to one-page image display produced on the full screen of display means 102 when presentation is executed, namely, a decorative frame wherein a parts image of a next display or back display button, etc., is placed and image information in material
25 memory 101 is read into a predetermined location. However, a

frame into which an image is not read may be called a template.

Presentation document refers to a set of templates related to each other in a hierarchical structure.

In FIG. 1, numeral 101 denotes material memory as material storage means for storing image information of a still image 101a and a moving image 101b as presentation material, numeral 102 denotes display means such as a CRT, and numeral 103 denotes initial screen display means for outputting initial screen information to the display means 102 for displaying an initial screen.

The initial screen display means 103 displays an initial screen 112 as shown in FIG. 7 on the display means 102. Placed on the initial screen 112 are a presentation button 113 for advancing to a mode for starting presentation display, a material listing button 114 for advancing to a mode for listing all image information stored in the material memory 101, and a display quit button 115 for terminating the display operation. When position detection means 109 described later detects the surrounding area of the button 113, 114, or 115 being specified with position specification means 108 described later, the function corresponding to the button 113, 114, or 115 is executed. Hereinafter, the operation will be referred to simply as "specify (specified) with the position specification means 108."

Numeral 104 denotes presentation display control means as folder display means for reading specified image information

from the material memory 101 and displaying the read image information on the display means 102 in the specified order and the specified screen size. Numeral 105 denotes listing control means for reducing image information in the material memory 101
5 and listing the reduced image information on the display means 102.

The listing control means 105 has a read section 151 for reading image information from the material memory 101, a determination section 152 for determining whether the image 10 information read in the read section 151 is a still or moving image, a still image reduction section 153 for reducing a still image 101a in the material memory 101, a moving image reduction section 154 for reducing a moving image 101b in the material memory 101 and driving and repeatedly reproducing the moving image, and a 15 listing section 155 for listing the image information reduced in the still image reduction section 153 and the moving image reduction section 154 on the display means 102, as shown in FIG. 2.

In the operation of the listing control means 105, first 20 the read section 151 reads image information from the material memory 101. Next, the determination section 152 determines whether the read image information is a still or moving image. If the determination section 152 determines that the image information is a still image, it sends the image information to 25 the still image reduction section 153 for reducing the image

information so that the image information can be listed. If the determination section 152 determines that the image information is a moving image, it sends the image information to the moving image reduction section 154 for reducing the image information 5 so that the image information can be listed and driving the moving image. The image information reduced in the still image reduction section 153 and the moving image reduction section 154 is sent to the listing section 155, which then places the image information so that the image information can be listed on the display means 10 102, and sends the image information to the display means 102.

Numeral 106 denotes display control means as edit means for driving and controlling the initial screen display means 103, the presentation display control means 104, and the listing control means 105, numeral 107 denotes scenario memory as scenario 15 storage means for storing image information specified and read in the presentation display control means 104 and the image information display order, numeral 108 denotes position specification means for specifying any position on the display screen of the display means 102, numeral 109 denotes position 20 detection means for detecting the position specified in the position specification means 108, and numeral 110 denotes parts memory for storing parts image information of presentation template buttons, decorative frames, etc., described later.

Numeral 111 denotes control means which comprises the 25 initial screen display means 103, the presentation display

control means 104, the listing control means 105, the display control means 106, the scenario memory 107, the position detection means 109, and the parts memory 110. Programs for executing the functions of the initial screen display means 103 and the position detection means 109 of the control means 111 are stored in ROM 111a.

The operation of the described image information presentation system will be discussed with reference to FIGS. 3 to 6.

10 First, at step S301, the display control means 106 drives the initial screen display means 103 for displaying the initial screen 112 in FIG. 7 on the display means 102. At step S302, whether or not the presentation button 113 is specified with the position specification means 108 is determined.

15 If it is determined at step S302 that the presentation button 113 is specified, at step S303 the display control means 106 drives the presentation display control means 104 for producing presentation display on the display means 102.

If it is not determined at step S302 that the presentation button 113 is specified, at step S304 whether or not the listing button 114 is specified is determined.

The presentation display will be discussed specifically below based on FIG. 4.

First, at step S420, the display control means 106 sets 25 a register (not shown) in the presentation display control means

104 to 1 as a variable N. The display control means 106 drives the presentation display control means 104. At step S421, the presentation display control means 104 reads the address in the material memory 101 at which the n'th (in this case, first) image information is stored from the scenario memory 107. At step S422, the presentation display control means 104 reads the image information from the material memory 101 based on the address read at step S421.

At step S423, the image information read at step S422 is inserted into an image insertion area in a predetermined template.

At step S424, the template and the image information are output to the display means 102 for displaying them on the display means 102. At this time, if the image information is a moving image, the moving image is driven on the display means 102. FIG. 8 shows an example of an image comprising a still image inserted into a template.

At step S425, whether or not a NEXT button for advancing to the next display is specified with the position specification means 108 is determined. If it is determined that the button is specified, control goes to step S426 and the variable N is incremented by one, then control returns to step S421 and steps S421 to S426 are repeated until the end of the display order stored in the scenario memory 107 is reached.

When the last screen is reached and a presentation quit button placed in the template is specified with the position

specification means 108, it is not determined at step S425 that the NEXT button is specified (NO at step S425), and control goes to step S427 at which it is determined that the presentation quit button is specified. Then, the presentation display is
5 terminated and control returns to step S303 and goes to step S301 for changing to the initial screen display. The operation at step S303 is now complete.

If it is determined at step S304 that the listing button 114 for preparing a presentation document is specified, at step
10 S305 the display control means 106 drives and controls the listing control means 105 for listing all image information in the material memory 101 on the display means 102.

The listing will be discussed specifically below based on FIG. 5.

15 First, at step S530, a template for a presentation document to be prepared is prepared and is stored in the scenario memory 107 as a preference file.

That is, the display control means 106 operates the listing control means 105 for listing parts images stored in the
20 parts memory 110, for example, buttons, decorative frames, etc., having different shapes and colors on the display means 102.

Seeing the listed parts images, the operator selects the parts images of desired decorative frames, buttons, etc., with the position specification means 108 and combines them in a desired
25 form for preparing a template.

The prepared template is not stored in the scenario memory 107 and the display control means 106 stores only a kind of program description of address information, etc., in the scenario memory 107. For example, the screen of the display means 102 is
5 represented by two-dimensional coordinates and the coordinates of the position where a button or a decorative frame is placed, the address in the parts memory 110 at which the parts image placed at the position is stored, and the display size of the image are stored in the scenario memory 107 as one preference file for each
10 presentation document.

Next, at step S531, the display control means 106 instructs the listing control means 105 to perform the listing operation and drives the listing control means 105. The read section 151 in the listing control means 105 reads one piece of
15 the image information stored in the material memory 101. At step S532, the determination section 152 determines whether or not the read image information is a still image. If it is determined at step S532 that the image information is a still image, control goes to step S533 at which the still image reduction section 153
20 processes the image information so that the image information can be reduced on display.

At step S534, the listing section 155 lists the thumbnail (reduced image information) processed at step S533 on the display means 102. FIG. 9 shows an example of the listing. At step S535,
25 whether or not all image information in the material memory 101

is read by the read section 151 is determined. If not all image information is read, control returns to step S531 and the operation is again executed starting at step S531.

If it is determined at step S532 that the image
5 information read from the material memory 101 is a moving image rather than a still image, control goes to step S536 at which the moving image reduction section 154 processes the image information so that the moving image can be reduced on display for listing. At step S537, the listing section 155 displays the
10 thumbnail processed at step S536 on the display means 102. At step S538, the moving image reduction section 154 drives the thumbnail displayed on the display means 102.

Steps S531 to S538 are repeated until it is determined at step S535 that all image information in the material memory
15 101 has been read. When it is determined at step S535 that all image information in the material memory 101 has been read, the operation at step S305 is complete.

After completion of the operation at step S305, control goes to step S306 and seeing the listing on the display means 102,
20 the operator selects image information used for presentation, specifies the image information display order, and edits.

The listing edit will be discussed specifically below based on FIG. 6.

First, at step S640, images to be inserted are put into
25 a presentation template.

Herein, the operator specifies the images to be used for presentation among the thumbnails listed on the display means 102 with the position specification means 108. At this time, the operator also specifies the order of the images used for presentation. The thumbnail specification order may be adopted as the presentation order.

At step S641, whether or not the edit operation is complete is determined. If the edit operation is not complete, step S640 is repeated. If it is determined at step S641 that the edit operation is complete, control goes to step S643 and the address in the material memory 101 at which the specified thumbnail is stored and the order are added to the template information stored in the preference file in the scenario memory 107. The position on the template where the image of the specified thumbnail is put is specified by the selected decorative frame and thus need not be specified at the time.

The listing edit operation at step S306 is now complete.

Then, control goes to step S303 and presentation display is produced for the operator to check the result.

If it is not determined at step S304 that the listing button 114 is specified (NO at step S304), it is judged whether or not the display quit button 115 is specified with the position specification means 108 is determined.

If it is determined at step S307 that the display quit button 115 is specified, control goes to step S308 at which the

operation of the display control means 106 is terminated and the display operation is terminated.

If it is not determined at step S307 that the display quit button 115 is specified (NO at step S307), namely, if invalid specification operation is performed, control returns to step S302 and a wait is made for the next operation.

In the embodiment, still and moving images are applied as the image information stored in the material memory 101, but the scope of the invention is not limited to them. Three-dimensional data prepared in the QuickTime VR format or the VRML format may also be stored and the listing means 105 may reduce and display a panorama image, etc., on the display means 102.

A preference file describing read image information, image information size, read position, and the like forming display for each presentation document is created and stored in the scenario memory 107, but the scope of the invention is not limited to them. A template into which an image is read may be prepared as one image file of bit map, GIF file, etc., and be stored in the scenario memory 107.

If a folder is specified in place of image information specified at step S306, when the image in the folder specified at step S643 is read into a template, more preferably the hierarchical structure of templates is made the same as that of folder. If the hierarchical structure is determined for storage at the folder preparation time, a lot of time and labor for later

presentation document preparation can be saved.

When the hierarchical structure is specified and a presentation document is prepared, more preferably, the number of buttons specified when a transition is made to another level

- 5 is automatically determined matching the number of branches in the hierarchical structure and the buttons are placed in each template as a branch screen of the hierarchical structure. At this time, the folder name put on the branch destination folder is input to the placed button and is displayed on the button.
- 10 Further, the branch destination address is also input to the button; automatically the button is prepared as a hierarchical link button.

That is, placement of buttons and jump addresses applied when the buttons are specified are set simply by specifying a folder and inputting the folder as a presentation document. Thus, the operator is relieved of burdensome button design placement and link setting.

In the embodiment, the template is prepared by reconfiguring the image information in the material memory 101

- 20 and the parts image information in the template memory 102, but the scope of the invention is not limited to it. Any image information may be reduced or enlarged and more than one image information piece may be combined into a template.

Further, in the embodiment, the image information presentation document is described as presentation document

preparation, but the scope of the invention is not limited to it.

The image information presentation document can also be used for preparing and editing an album, an illustrated reference book, etc.

5 According to the invention, if still and moving images are mixed, easy editing is enabled based on a listing.

Further, referring now to the accompanying drawings, there is shown a preferred embodiment of the invention.

In FIG. 10, numeral 1 denotes material memory as material storage means for storing image information of a still image 1a and a moving image 1b as presentation material, numeral 2 denotes template memory for storing parts image information comprising decorative frames having different shapes and colors to insert the image information in the material memory 1, buttons, background, etc., and a set of decorative frames of pages related in a hierarchical structure with one decorative frame as one page, which will be hereinafter referred to as template.

Numeral 3 denotes presentation memory as presentation storage means for storing a presentation document as an image information presentation document prepared as a folder comprising the templates in the template memory 2 into which images are inserted, related and concatenated hierarchically. Numeral 4 denotes display means such as a CRT and numeral 5 denotes position specification means as image specification means for specifying 25 any position on the display screen of the display means 2.

Numeral 6 denotes control means for controlling image information presentation system of the invention and numeral 7 denotes display control means for controlling display of information stored in the material memory 1, the template memory 2, and the presentation memory 3.

The display control means 7 has a material listing section 71 for listing the image information in the material memory 1 on the display means 4, a template listing section 72 for listing the templates and parts image information in the template memory 2 on the display means 4, a presentation listing section 73 for listing the presentation documents in the presentation memory 3 on the display means 4, and a presentation hierarchy display section 74 for listing the relation state of the image information in one presentation document specified in the presentation memory 3, namely, the hierarchical structure of the image information.

The material listing section 71 reduces and lists all image information regardless of still or moving images on the display means as shown in FIG. 6, and drives and displays moving images of the listed image information in the reduced state.

The presentation listing section 73 lists the presentation documents on the display means 4 in a folder display format as shown in FIG. 16. The first pages of the presentation documents may be reduced and listed as representative images instead of display in the folder format.

Further, in the presentation hierarchy display section

74, for example, as a presentation document, two images files A and C and a folder B are related at the first level and an image file B as the folder B and folders D, E, and F are related in the folder B at the second level, as shown in FIG. 18. A number of 5 image files are placed in each of the folders D, E, and F.

The hierarchical structure is listed hierarchically as shown in FIG. 19. At this time, if the image files in the folders D, E, and F are all displayed side by side, long display results, thus the image files are displayed in overlapping relation so that 10 all image files can be displayed.

Numeral 8 denotes initial screen display means for displaying an initial screen on the display means 4. The initial screen displayed in the initial screen display means 8 is an initial screen 16, for example, as shown in FIG. 14.

15 The initial display screen 16 is made up of a decorative frame 23 having a window 24 at the center, namely, a template and three buttons placed in the window 24. The three buttons are a presentation button 17 for starting presentation display, an edit button 18 for preparing a new presentation document or editing 20 any existing presentation document, and an operation quit button 19 for terminating the display operation.

When the surrounding area of the button 17, 18, or 19 is specified with position specification means 8 and specified position detection means 10 described later detects the 25 specification of the button, the function corresponding to the

button 17, 18, or 19 is executed. Hereinafter, the operation will be referred to simply as "specify (specified) with the position specification means 5."

- Numeral 9 denotes presentation display control means for
- 5 producing presentation display of each presentation document stored in the presentation memory 3 in a slide show form, numeral 10 denotes specified position detection means for detecting the specified position when a position on the display means 4 is specified, and numeral 11 denotes template specification means
- 10 for specifying any desired one of the templates stored in the template memory 2.

If a template is not specified, the template specification means 11 assumes that a predetermined template is specified.

- 15 Numeral 12 denotes presentation document preparation means for reading image information in the material memory 1 into the template specified with the template specification means 11 for preparing a presentation document, numeral 13 denotes edit means for changing the display order of the image information read
- 20 through the presentation document preparation means 12 or replacing a part of the read image information with image information in the material memory 1, and numeral 14 denotes name read means for reading a title name of image information.

- The name read means 14 reads the name of each image file
- 25 read by the presentation document preparation means 12 into a

template as the title of the image in the presentation document.

Numeral 15 denotes program memory for storing a program for driving the functions of the components in the display control means 6.

5 The control means 6 contains the functions of the display control means 7 to the name read means 14.

The operation of the described image information presentation system will be discussed with reference to FIG. 11.

10 First, at step S1, the initial screen display means 8 displays the initial screen 16 as shown in FIG. 15 on the display means 4. At step S2, whether or not the presentation button 17 is specified with the position specification means 5 is determined.

15 If it is determined at step S2 that the presentation button 17 is specified, control goes to step S3 and the presentation listing section 73 lists the presentation documents stored in the presentation memory 3 on the display means 4. At step S4, the presentation document to be displayed is specified with the position specification means 5 among the presentation documents displayed on the display means 4. At step S5, the presentation document specified at step S4 is read from the presentation memory 3 and display for presentation is executed in the slide show form on the display means 4.

20 Upon completion of execution of the presentation at step S5, control returns to step S1 and the initial screen 16 is again

displayed.

If it is not determined at step S2 that the presentation button 17 is specified (NO at step S2), control goes to step S6 and whether or not the edit button 18 is specified is determined.

5 If it is determined at step S6 that the edit button 18 is specified, control goes to step S7 at which the edit means 13 displays an edit screen 20 as shown in FIG. 17 on the display means 4, and determines whether or not a new preparation button 21 of a presentation document is specified. If it is determined that
10 the new preparation button 21 specified, control goes to step S8 and the new preparation operation is executed.

The new preparation operation at step S8 will be discussed with reference to FIG. 12.

First, at step S100, the template listing section 72 lists
15 the parts image information of decorative frames, buttons, etc., stored in the template memory 2 on the display means 4. At step S101, any desired decorative frames, buttons, etc., are specified with the position specification means 5 from the parts image information listed on the display means 4 and templates are
20 prepared and further a presentation document is prepared.

Specifically, all display screens of the prepared templates are not stored in a bit map or GIF format and the presentation preparation means 12 creates a preference file describing addresses in the template memory 2 at which decorative
25 frames used as bases are stored, addresses in the template memory

2 at which buttons placed on the decorative frames are stored, placement positions of the buttons on the decorative frames, addresses in the template memory 2 at which used backgrounds are stored, the number of the templates, and the relation among the
5 templates.

As described above, if no desired template is specified with the position specification means 5, the presentation preparation means 12 automatically creates a preference file corresponding to a preset template.

10 At step S102, the material listing section 71 lists the image information in the material memory 1 on the display means 4. At step S103, image information used for presentation is selected with the position specification means 5. To select all image information, for example, if an ALL button 25 placed in the
15 upper-right portion of a template 23 in FIG. 15 is specified with the position specification means 5, all image information can be selected.

At step S104, the presentation document prepared at step S101 is hierarchically displayed in the presentation hierarchy
20 display section 74 and the read start page into which image information is to be read is specified.

For example, assume that the presentation document prepared at step S101 into which no images are read as shown in FIG. 20 is hierarchically displayed in the presentation hierarchy
25 display section 74. The digits given in FIG. 20 are page numbers

of the presentation document. At step S104, the page at which image read is to be started in the hierarchy display may be specified with the position specification means 5.

At step S105, whether or not an OK button 26 placed in
5 the lower-left portion in FIG. 6 for giving a read command, for example, is specified with the position specification means 5 is determined. A wait is made until it is determined that the OK button 26 is specified. When it is determined at step S105 that the OK button 26 is specified, control goes to S106 and the
10 presentation preparation means 12 reads the image information specified at step S103 into the template specified at step S101.

Specifically, if the second page is specified as the insertion start page and four image information pieces are specified in FIG. 20, the address in the material memory 1 at which
15 the image information read into the template of the second page is stored is additionally stored in the template information of the second page in the preference file created at step S101. For the remaining pages (third to fifth pages), the corresponding image information is added to the preference file in a similar
20 manner.

At step S107, the name read means 14 reads the file names of the read image information as the title names of the templates, adds the read names to the preference file, and stores the preference file of the complete presentation document in the
25 presentation memory 3. After this, control returns to step S8

and goes to S11 and the edit operation is executed.

The read operation at step S102 will be discussed in more detail with reference to FIG. 13.

First, at step S200, the control means 1 reads one image information piece from the material memory 1. At step S201, whether or not the read image information is a still image is determined. If it is determined at step S201 that the read image information is a still image, control goes to step S202 and the still image is reduced. At step S203, the material listing section 71 lists on the display means 4, and control goes to step S204.

If it is determined at step S201 that the image information is a moving image rather than a still image, control goes to step S206 at which the moving image is reduced. At step S206, the material listing section 71 lists on the display means 4. At step S207, display of the moving image is driven and control goes to step S204.

At step S204, whether or not all image information has been read from the material memory 1 is determined. If it is determined at step S204 that image information to be read remains, control returns to step S200 and the read operation is again executed. Upon completion of reading all image information, control returns to step S102 and goes to the next step (S103).

The new preparation operation at step S8 is now complete and control goes to the next step (S11).

If it is not determined at step S7 that the new preparation button 21 is specified (NO at step S7), namely, an edit/correct button 22 is specified, control goes to step S9 at which the presentation listing section 73 lists the presentation documents stored in the presentation memory 3 on the display means 4 as shown in FIG. 7. At step S10, any desired one to be edited, of the listed presentation documents is specified with the position specification means 5.

After step S8 or S10 is executed, control goes to step S11 and the pages of the specified presentation document are hierarchically displayed as shown in FIG. 19. The hierarchical structure enables the operator to view the concatenation and order of the pages at a glance.

At step S12, whether or not the display order or the images are proper on the listing at step S11 is determined. If necessary, the image to be edited is specified and the display order is changed or the image is replaced with new image information from the material memory 1. Upon completion of the editing, control returns to step S1 and the initial screen 16 is again displayed on the display means 4.

If it is not determined at step S6 that the edit button 18 is specified (NO at step S6), control goes to step S13 and whether or not the quit button 19 is specified is determined. If it is determined at step S13 that the quit button 19 is specified, control goes to step S14 at which the operation of the control

means 6 is terminated and the display operation is terminated.

If it is not determined at step S13 that the quit button 19 is specified (NO at step S13), namely, if invalid specification operation is performed, control returns to step S2 and a wait is

5 made for the next operation.

The images are thus read into the presentation document.

In the embodiment, the material memory may store not only single image information as still and moving images, but also a set (namely, folder) comprising image information related in a

10 hierarchical structure.

If a folder is specified in place of image information specified at step S103, when the presentation preparation means 12 reads the specified image in the folder into the template at step S106, more preferably the hierarchical structure of 15 templates is made the same as that of folder. If the hierarchical structure is determined for storage at the folder preparation time, a lot of time and labor for later presentation document preparation can be saved.

When the hierarchical structure is specified and a 20 presentation document is prepared, more preferably, the number of buttons specified when a transition is made to another level is automatically determined matching the number of branches in the hierarchical structure and the buttons are placed in each template as a branch screen of the hierarchical structure. At 25 this time, the folder name put on the branch destination folder

is input to the placed button and is displayed on the button.

Further, the branch destination address is also input to the button; automatically the button is prepared as a hierarchical link button.

5 That is, placement of buttons and jump addresses applied when the buttons are specified are set simply by specifying a folder and inputting the folder as a presentation document. Thus, the operator is relieved of burdensome button design placement and link setting.

10 In the embodiment, still and moving images are applied as the image information stored in the material memory 1, but the scope of the invention is not limited to them. Three-dimensional data prepared in the QuickTime VR format or the VRML format may also be contained and the material listing section 71 may reduce
15 and display a panorama image, etc., on the display means 4.

In the embodiment, the template is prepared by reconfiguring the image information in the material memory 1 and the parts image information in the template memory 2, but the scope of the invention is not limited to it. Any image information may
20 be reduced or enlarged and more than one image information piece may be combined into a template.

A preference file describing read image information, image information size, read position, and the like forming display for each presentation document is created and stored in
25 the presentation memory 3, but the scope of the invention is not

limited to them. A template into which an image is read may be prepared as one image file of bit map, GIF file, etc., and be stored in the presentation memory 3.

In the embodiment, the image information presentation document is described as presentation document preparation, but the scope of the invention is not limited to it. The image information presentation document can also be used for preparing and editing an album, an illustrated reference book, etc.

According to the invention, when a presentation document is prepared, time and labor are saved and easy preparation and editing can be executed. Since the hierarchical structure is displayed, the relation state in the hierarchical structure can be seen at a glance; visibility is improved and ease of edit work can be enhanced.

WHAT IS CLAIMED IS:

1. An image information presentation system comprising:
 - material storage means for storing image information including a still image and a moving image,
 - 5 display means for displaying the image information, display control means for displaying image information in a predetermined size on said display means, and listing control means for reducing the image information stored in said material storage means and displaying a plurality
 - 10 of images in a list format on said display means, said listing control means including:
 - a determination section for determining whether the reduced information is a still or moving image,
 - a still image reduction section, if said determination section determines that the image information is a still image, for performing processing for producing reduced display of the image,
 - 15 a moving image reduction section, if said determination section determines that the image information is a moving image, for performing processing for producing reduced display of the image and driving the moving image in this state, and
 - 20 a listing section for listing the image information provided by said still image reduction section and said moving image reduction section on said display means.
 - 25

2. An image information presentation method in an image information presentation system comprising: providing material storage means for storing image information including a still image and a moving image, providing display means for displaying the image information, providing display control means for displaying image information in a predetermined size on said display means,

said image information presentation method comprising:

the first step of reading the image information from said

10 material storage means,

the second step of determining whether the read information is a still or moving image,

the third step of performing processing for producing reduced display of the image, if it is determined at said second 15 step that the image information is a still image,

the fourth step of performing processing for producing reduced display of the image, if it is determined at said second step that the image information is a moving image,

the fifth step of driving the moving image in the reduced 20 display processing state at said fourth step, and

the sixth step of listing the image information provided at said third and fourth steps on said display means.

3. A computer data signal in a carrier wave for executing 25 an image information presentation system comprising material

storage means for storing image information including a still image and a moving image, display means for displaying the image information, and display control means for displaying image information in a predetermined size on said display means to

5 perform:

the computer data signal being for executing the steps comprising:

the first step of reading the image information from said material storage means,

10 the second step of determining whether the read information is a still or moving image,

the third step of performing processing for producing reduced display of the image, if it is determined at said second step that the image information is a still image,

15 the fourth step of performing processing for producing reduced display of the image, if it is determined at said second step that the image information is a moving image,

the fifth step of driving the moving image in the reduced display processing state at said fourth step, and

20 the sixth step of listing the image information provided at said third and fourth steps on said display means.

4. A medium storing an image information presentation system program for reading image information including a still image and
25 a moving image, stored in material storage means and listing the

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read image information,
the program being for executing the steps comprising:
the first step of reading the image information from said
material storage means,
5 the second step of determining whether the read
information is a still or moving image,
the third step of performing processing for producing
reduced display of the image, if it is determined at said second
step that the image information is a still image,
10 the fourth step of performing processing for producing
reduced display of the image, if it is determined at said second
step that the image information is a moving image,
the fifth step of driving the moving image in the reduced
display processing state at said fourth step, and
15 the sixth step of listing the image information provided
at said third and fourth steps on said display means.

5. An image information presentation system comprising:
material storage means for storing image information of
20 a still image and a moving image,
material listing means for listing the image information
in said material storage means on display means,
image specification means for enabling specification of
more than one piece of the image information listed on the display
25 means, and

5 presentation preparation means for reading all images specified with said image specification means in batch into templates having related pages of a template as one page into which images are inserted for preparing an image information

5 presentation document.

6. The image information presentation system as claimed in claim 5, wherein

10 said presentation preparation means reads the specified images with said image specification means in order starting at the specified page of the template.

7. The image information presentation system as claimed in claim 5 or 6, further comprising:

15 presentation storage means for storing the image information presentation document prepared in said presentation preparation means, and

20 presentation listing means for listing the image information presentation documents stored in said presentation storage means.

8. The image information presentation system as claimed in any one of claims 5 to 7, wherein

25 said material storage means also stores a folder of a set of the image information placed in a hierarchical structure, and

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when images are read and an image information presentation document is prepared with the folder specified, said presentation preparation means makes the hierarchical structure of the templates the same as that of the folder and prepares the
5 image information presentation document.

9. The image information presentation system as claimed in claim 8, further comprising:

10 presentation hierarchy display means for listing the pages of the image information presentation document in a hierarchical structure and displaying the pages at the same level in overlapping relation.

10. The image information presentation system as claimed in
15 claim 9, further comprising:

edit means for performing editing including exchanging and replacing the image information read into the pages in the hierarchy display state of said presentation hierarchy display means.

20

11. The image information presentation system as claimed in any one of claims 5 to 10, further comprising:

name read means for automatically reading titles of the pages of the templates, wherein

25 said material storage means stores image information with

a file name, and

 said name read means reads the file name of the image information as the title of the page of the template into which the image information is read.

5

12. An image information presentation method comprising:

 the first step of listing from material storage means for storing image information including a still image and a moving image, the image information on display means,

10 the second step of specifying more than one piece of the image information listed at said first step with image specification means, and

 the third step of reading all image information specified at said second step in batch into templates having related pages
15 of a template as one page into which images are inserted and preparing an image information presentation document by presentation preparation means.

13. The image information presentation method as claimed in
20 claim 12, further comprising:

 the fourth step, when the image information pieces specified at said second step are a folder of a set of image information in a hierarchical structure, of making the hierarchical structure of the templates the same as that of the
25 folder, reading the image information, and preparing the image

information presentation document by said presentation preparation means.

14. A computer data signal embodied in a carrier wave for
5 executing an image information presentation system,
the computer data signal being for executing the steps comprising:

the first step of listing from material storage means for
storing image information including a still image and a moving
10 image, the image information on display means,

the second step of specifying more than one piece of the
image information listed at said first step with image
specification means, and

the third step of reading all image information specified
15 at said second step in batch into templates having related pages
of a template as one page into which images are inserted and
preparing an image information presentation document by
presentation preparation means.

20 15. A medium storing an image information presentation system
program for executing:

the first step of listing from material storage means for
storing image information including a still image and a moving
image, the image information on display means,

25 the second step of specifying more than one piece of the

image information listed at said first step with image specification means, and

the third step of reading all image information specified at said second step in batch into templates having related pages
5 of a template as one page into which images are inserted and preparing an image information presentation document by presentation preparation means.

16. The medium storing the image information presentation
10 system program as claimed in claim 15, wherein said program further comprising:

the fourth step, when the image information pieces specified at said second step are a folder of a set of image information in a hierarchical structure, of making the
15 hierarchical structure of the templates the same as that of the folder, reading the image information, and preparing the image information presentation document by said presentation preparation means.

ABSTRACT OF THE DISCLOSURE

An image information presentation system, wherein when all image information is read from a material memory 101 and is reduced by a listing control means 105 to be listed on a display means 102, the image information read by the listing control means 105 is determined whether to be a still image or a moving image. 5 If the image information is a moving image, thumbnails (reduced image) is driven in a listing state.

Further, the image information presentation system, 10 comprises a template listing section 72 for listing the templates and parts image information in the material memory 1 on the display means 4, a position specification means 5 for specifying the listed image information at a plural of positions on the display screen of the display means 4, and a presentation document preparation 15 means 12 for storing all image information specified in a template constructed in relating decorative frame for storing image between a plural of pages and preparing a presentation document.

FIG. 1

- 101 MATERIAL MEMORY
- 102 DISPLAY MEANS
- 103 INITIAL SCREEN DISPLAY MEANS
- 5 104 PRESENTATION DISPLAY CONTROL MEANS
- 105 LISTING CONTROL MEANS
- 106 DISPLAY CONTROL MEANS
- 107 SCENARIO MEMORY
- 108 POSITION SPECIFICATION MEANS
- 10 109 POSITION DETECTION MEANS
- 110 PARTS MEMORY

FIG. 2

- 151 READ SECTION
- 15 152 DETERMINATION SECTION
- 153 STILL IMAGE REDUCTION SECTION
- 154 MOVING IMAGE REDUCTION SECTION
- 155 LISTING SECTION
 - A. STILL IMAGE
 - 20 B. MOVING IMAGE

FIG. 3

A. START

S301 DISPLAY INITIAL SCREEN

S302 PRESENTATION BUTTON SPECIFIED?

5 S303 PRESENTATION DISPLAY

S304 LISTING BUTTON SPECIFIED?

S305 LISTING

S306 LISTING EDIT

S307 DISPLAY QUIT BUTTON SPECIFIED?

10 S308 PERFORM TERMINATION OPERATION

B. END

FIG. 4

A. PRESENTATION DISPLAY

15 S421 READ FROM SCENARIO MEMORY

S422 READ FROM MATERIAL MEMORY

S423 INSERT IMAGE

S424 EXECUTE PRESENTATION DISPLAY

S425 NEXT BUTTON SPECIFIED?

20 S427 QUIT BUTTON SPECIFIED?

FIG. 5

A. LISTING

S530 PREPARE TEMPLATE

S531 READ FROM MATERIAL MEMORY

5 S532 STILL IMAGE?

S533 REDUCE STILL IMAGE

S534 LIST

S535 END OF MATERIAL MEMORY READ?

S536 REDUCE MOVING IMAGE

10 S537 LIST

S538 DRIVE MOVING IMAGE

FIG. 6

A. LISTING EDIT

15 S640 SPECIFY IMAGE

S641 IS SPECIFICATION COMPLETE?

S642 STORE IN SCENARIO MEMORY

FIG. 7

20 112 INITIAL SCREEN

113 PRESENTATION

114 LISTING

115 QUIT

FIG. 8

- A. Type ENTER CHARACTERS HERE
- B. Title ENTER CHARACTERS HERE

5 FIG. 10

- 1 MATERIAL MEMORY
- 2 TEMPLATE MEMORY
- 3 PRESENTATION MEMORY
- 4 DISPLAY MEANS
- 10 5 POSITION SPECIFICATION MEANS
- 6 CONTROL MEANS
- 7 DISPLAY CONTROL MEANS
- 8 INITIAL SCREEN DISPLAY MEANS
- 9 PRESENTATION DISPLAY CONTROL MEANS
- 15 10 SPECIFIED POSITION DETECTION MEANS
- 11 TEMPLATE SPECIFICATION MEANS
- 12 PRESENTATION PREPARATION MEANS
- 13 EDIT MEANS
- 14 NAME READ MEANS
- 20 15 PROGRAM MEMORY
- 71 MATERIAL LISTING SECTION
- 72 TEMPLATE LISTING SECTION
- 73 PRESENTATION LISTING SECTION
- 74 PRESENTATION HIERARCHY DISPLAY SECTION

FIG. 11

A. START

S1 DISPLAY INITIAL SCREEN

S2 PRESENTATION BUTTON SPECIFIED?

5 S3 LIST PRESENTATION DOCUMENTS

S4 SPECIFY PRESENTATION DOCUMENT

S5 EXECUTE PRESENTATION DISPLAY

S6 EDIT BUTTON SPECIFIED?

S7 NEW PREPARATION BUTTON SPECIFIED?

10 S8 NEW PREPARATION

S9 LIST PRESENTATION DOCUMENTS

S10 SPECIFY PRESENTATION DOCUMENT

S11 DISPLAY HIERARCHY

S12 EDIT

15 S13 QUIT BUTTON SPECIFIED?

S14 PERFORM TERMINATION OPERATION

B. END

FIG. 12

A. NEW PREPARATION

S100 LIST PARTS IMAGE INFORMATION

S101 PREPARE TEMPLATE

5 S102 READ

S103 SPECIFY IMAGE INFORMATION

S104 SPECIFY READ START PAGE

S105 READ COMMAND ENTERED?

S106 READ

10 S107 READ NAME

FIG. 13

A. READ

S200 READ FROM MATERIAL MEMORY

15 S201 STILL IMAGE?

S202 REDUCE STILL IMAGE

S203 LIST

S204 END OF MATERIAL MEMORY READ?

S205 REDUCE MOVING IMAGE

20 S206 LIST

S207 DRIVE MOVING IMAGE

FIG. 14

16 INITIAL SCREEN

17 PRESENTATION

18 EDIT

5 19 QUIT

FIG. 15

A. SELECT IMAGES

10 FIG. 16

A. SELECT IMAGES

FIG. 17

A. EDIT

15 21 NEW PREPARATION

22 EDIT/CORRECT

FIG. 18

A. MATERIAL FOLDER

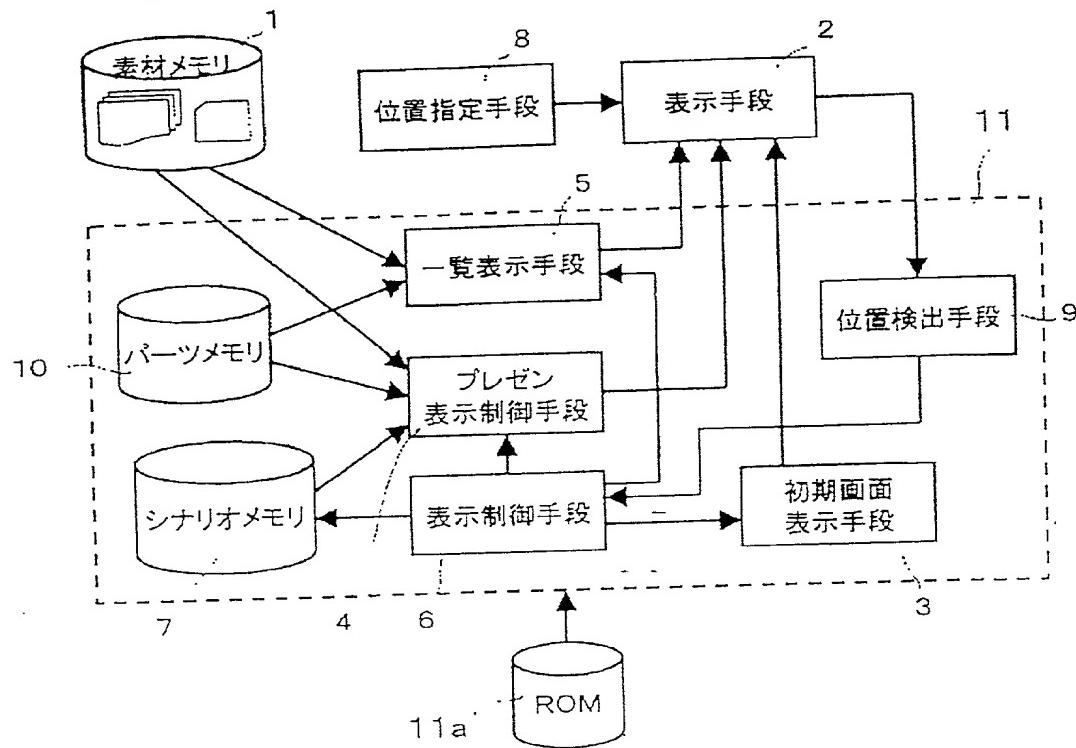
20 B. B FOLDER

FIG. 19

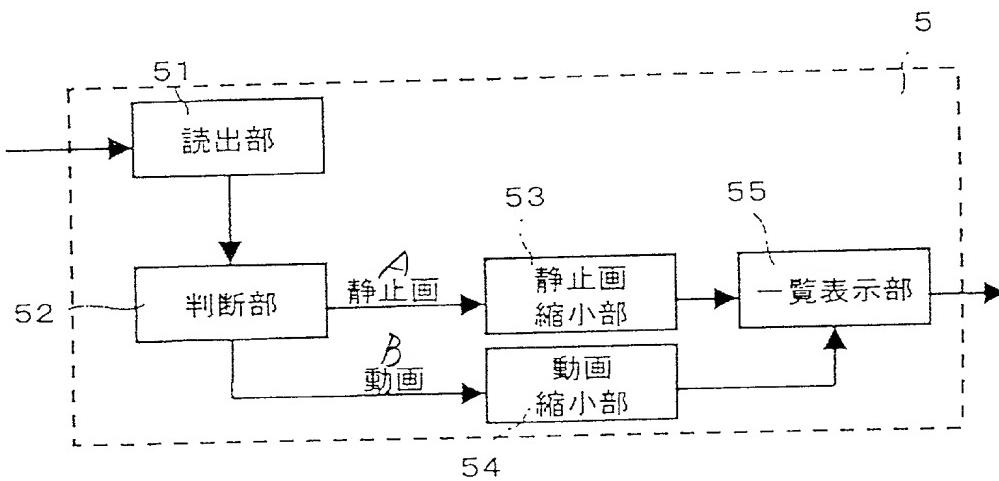
A. MATERIAL LIST

【書類名】 図面

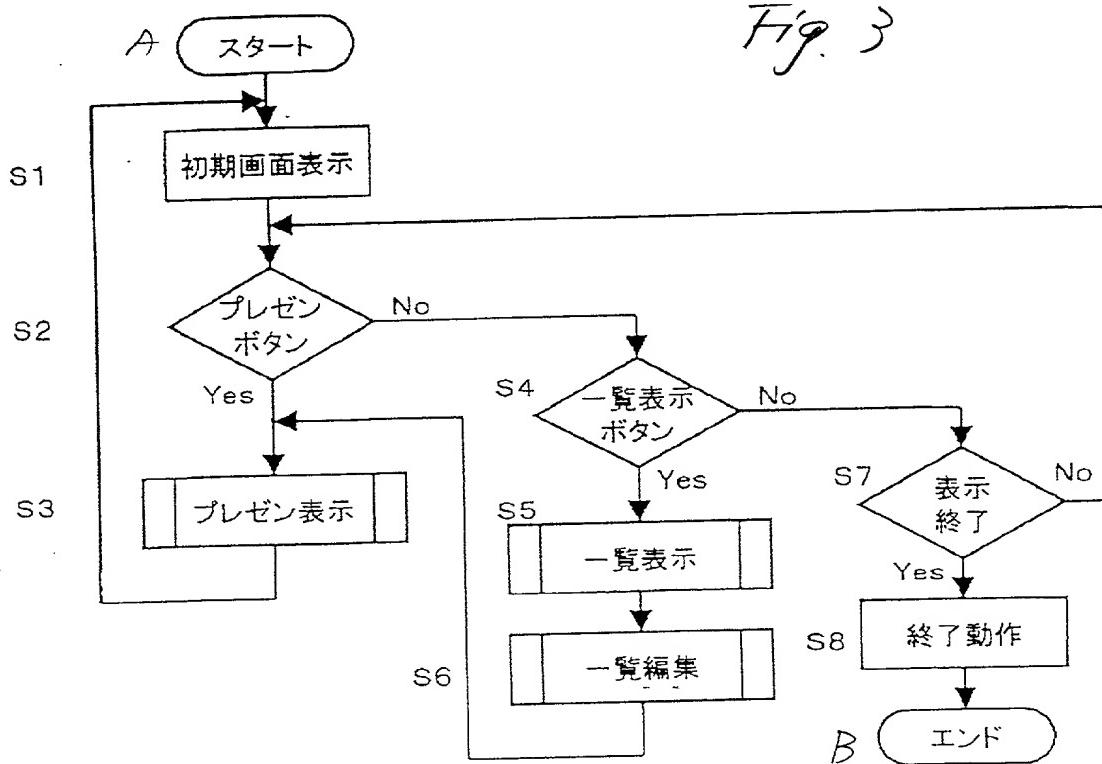
【図1】 Fig. 1



【図2】 Fig. 2



【図3】



【図4】

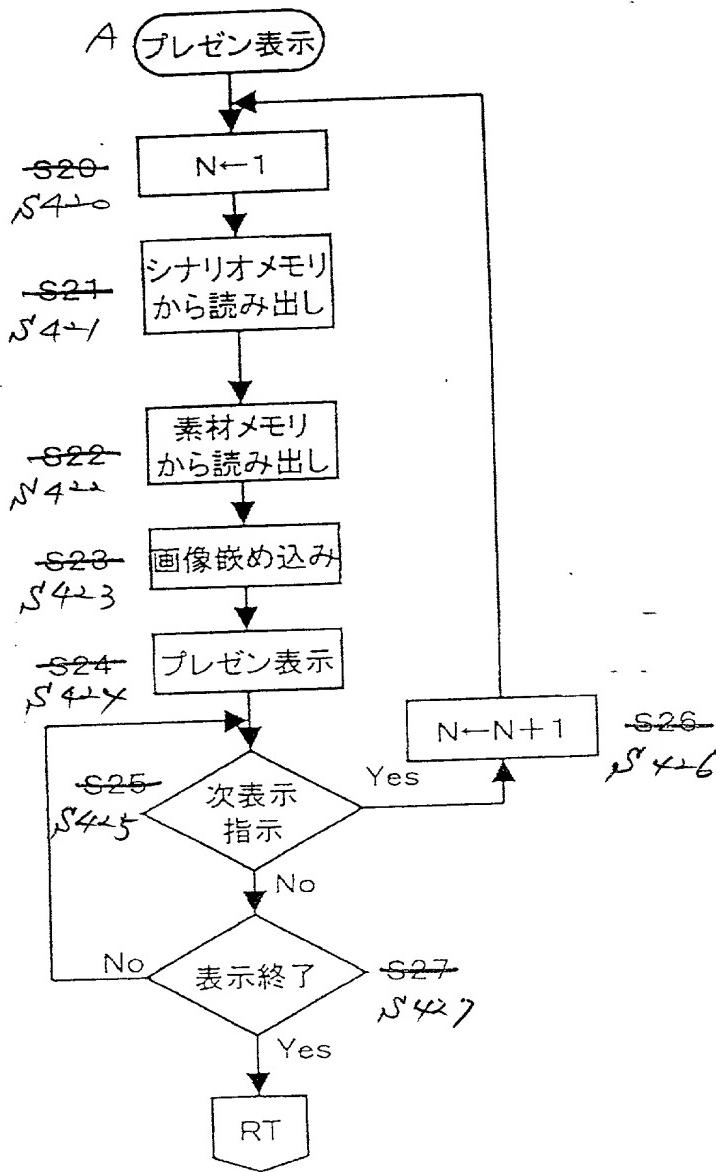
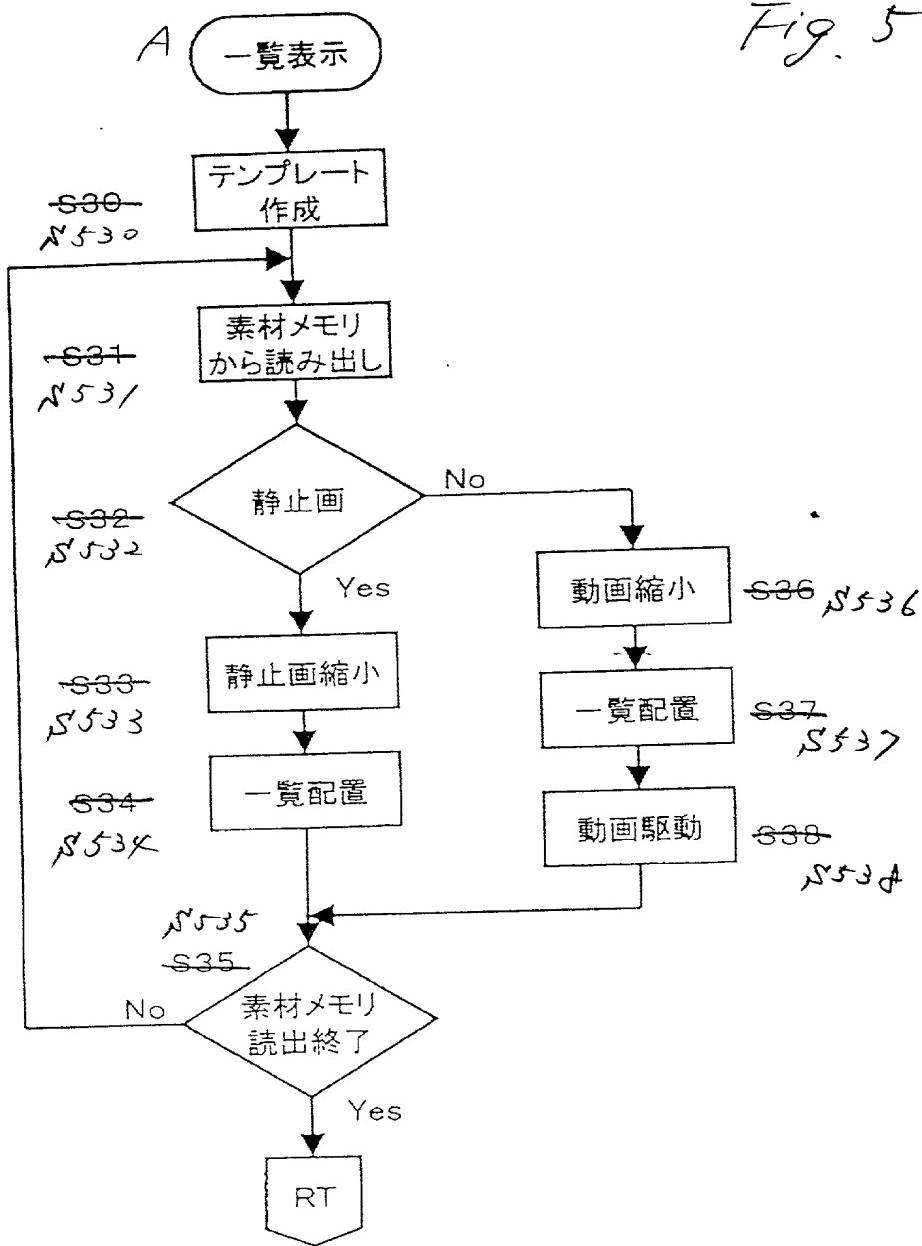
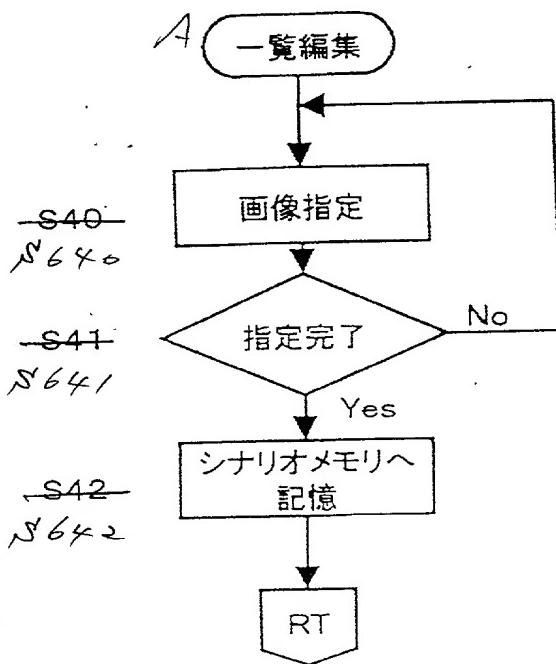


Fig. 4

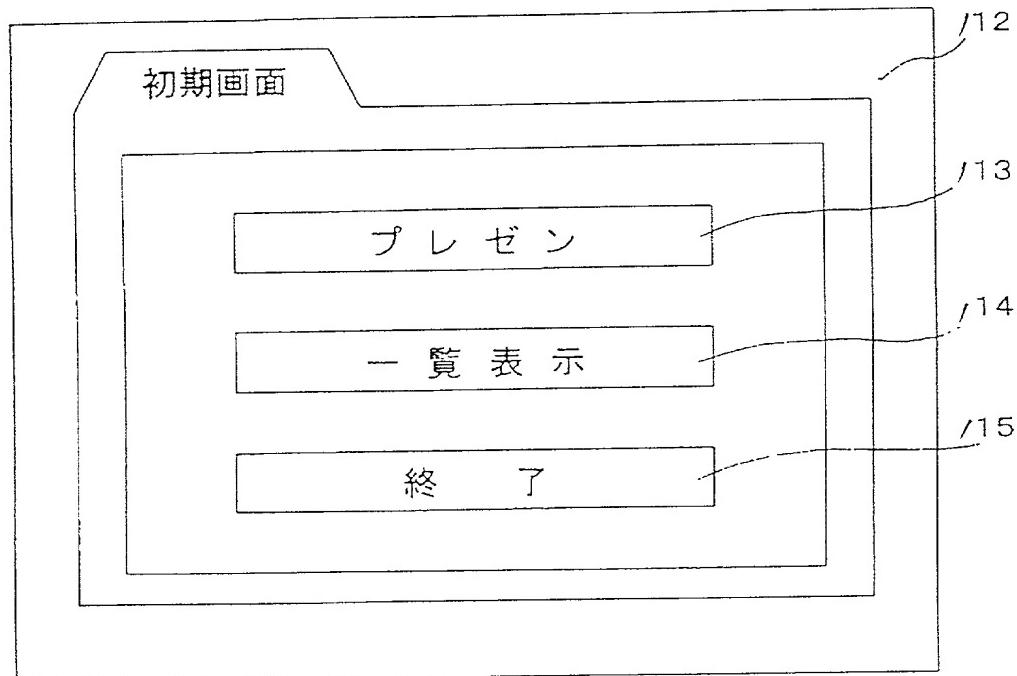
【図5】



【図6】



【図7】



【図8】

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[受付日] 平10.10.02

頁: 6 / 1X

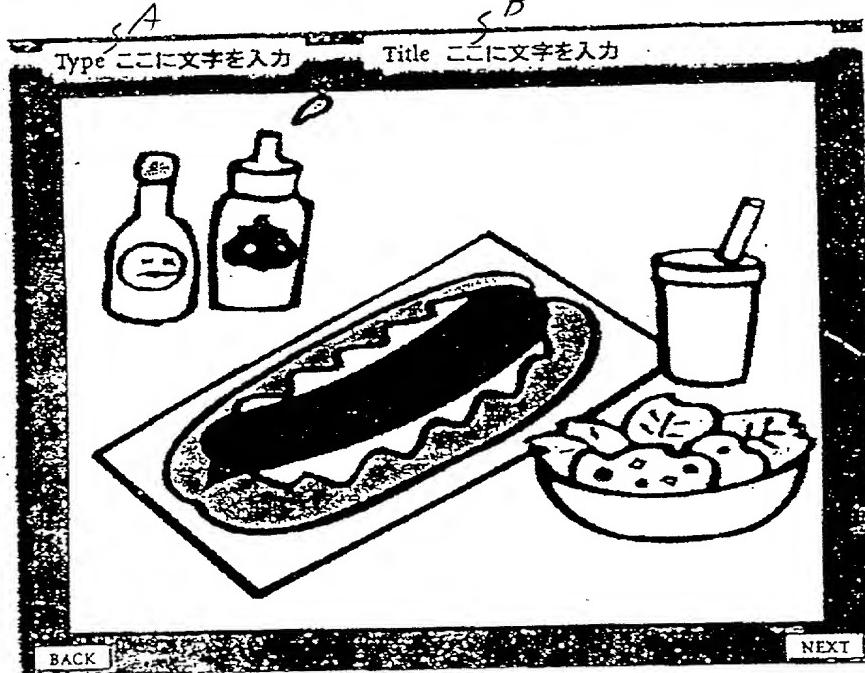


Fig. 8

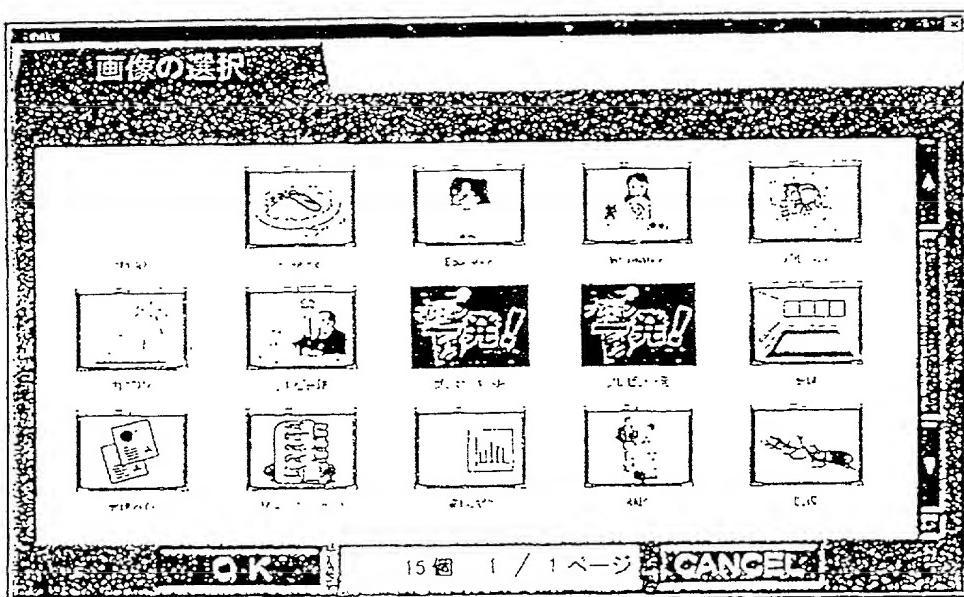
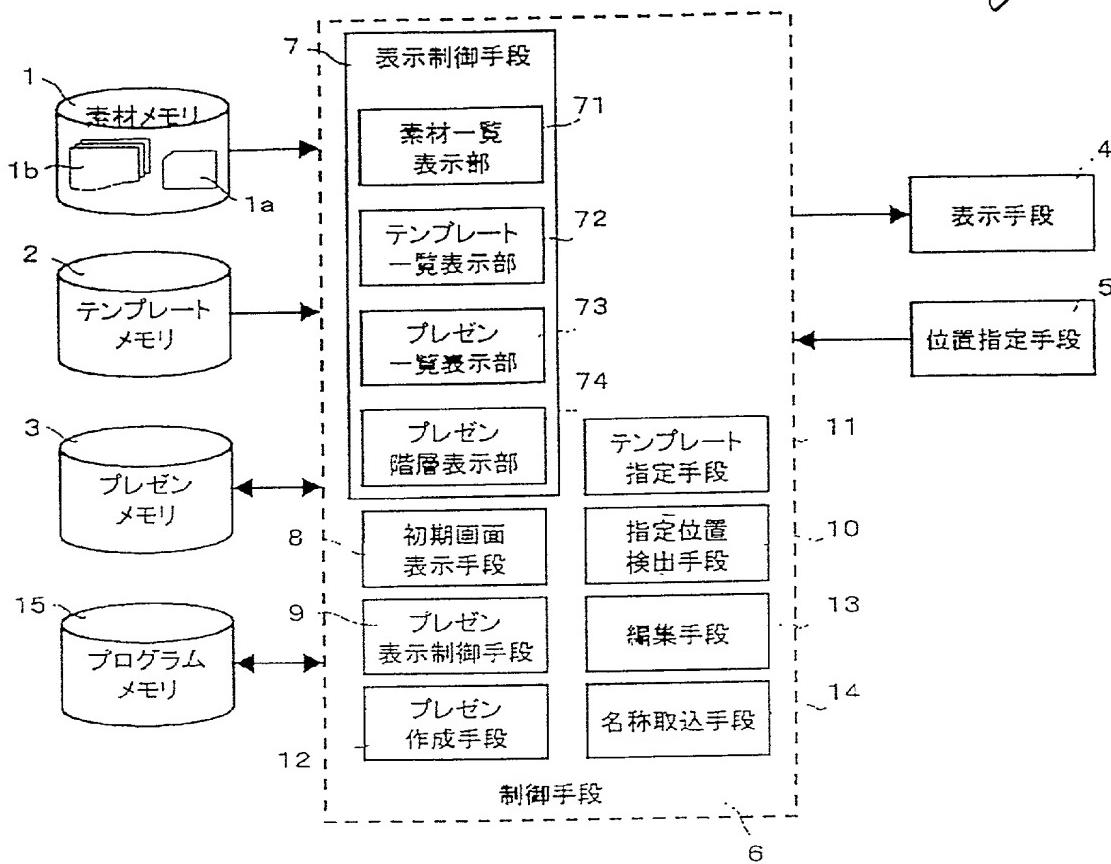


Fig. 9

【書類名】 図面

【図1】



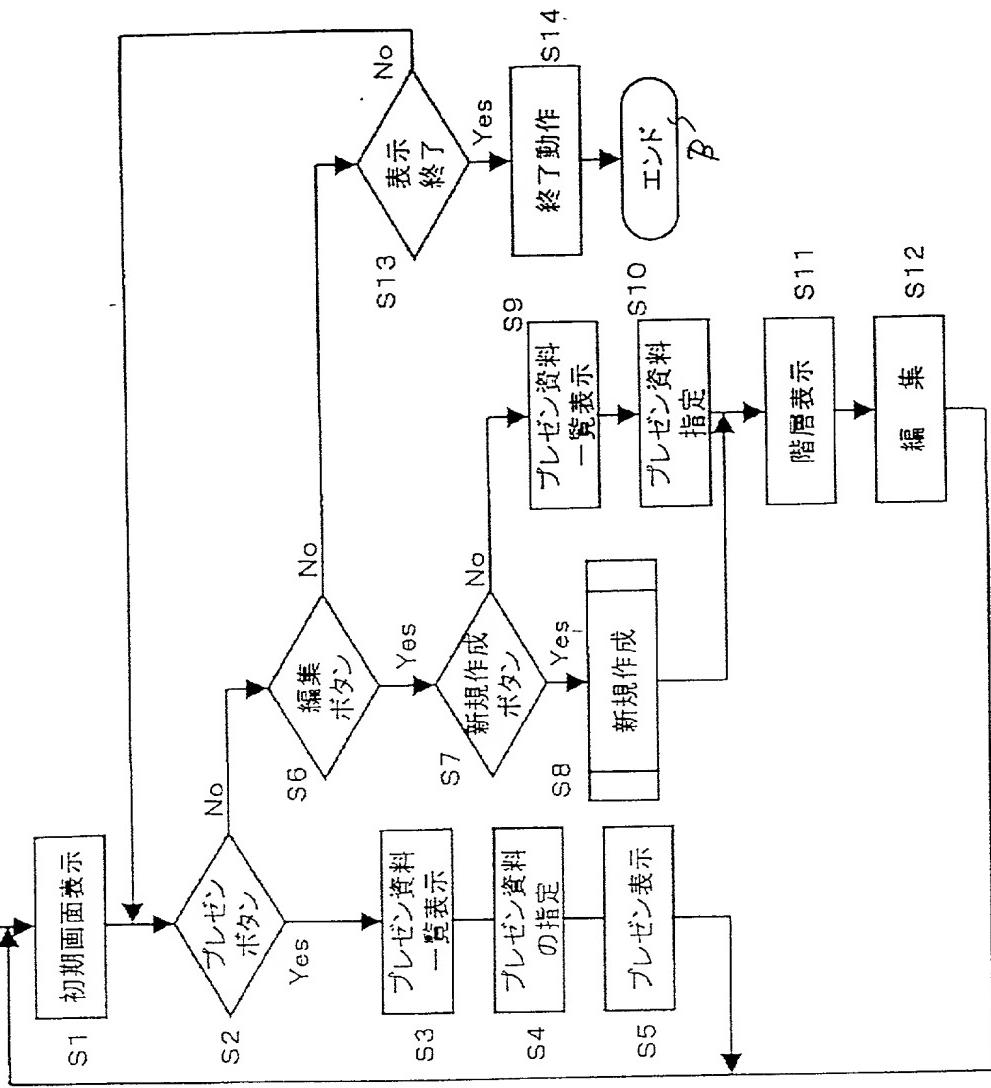


図3

Fig. 11

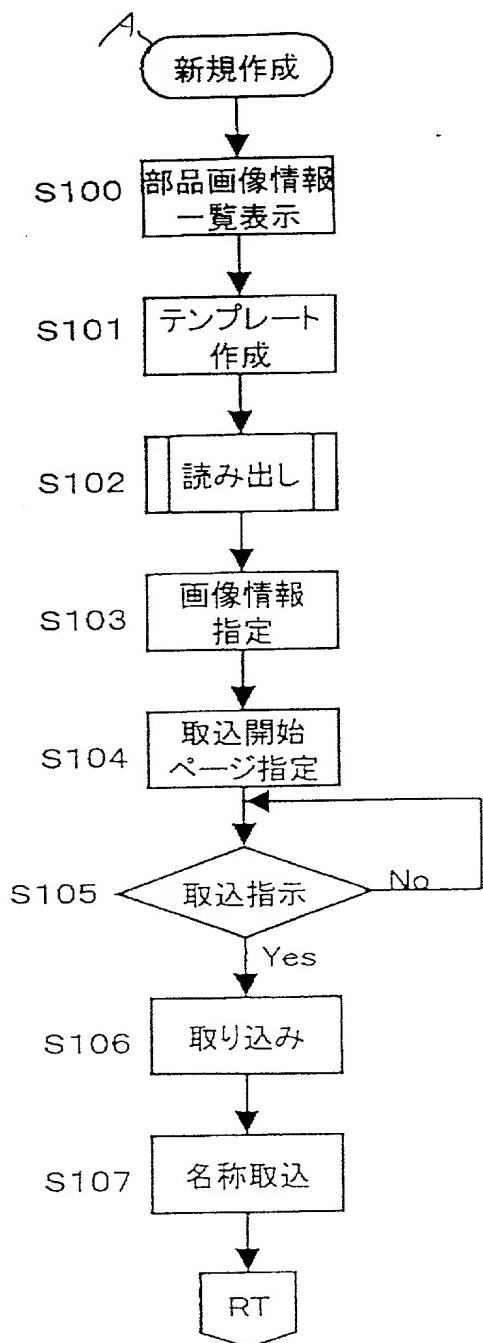


Fig. 12

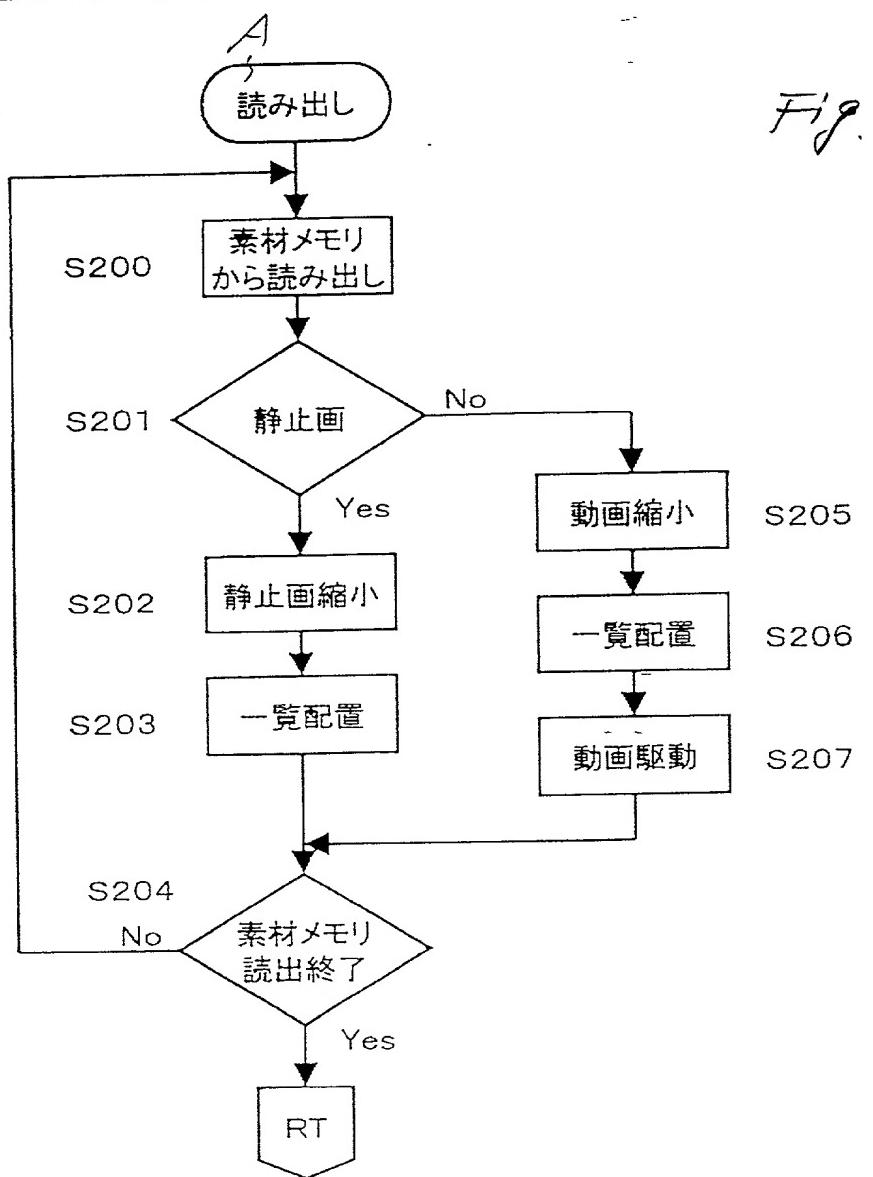


Fig. 13

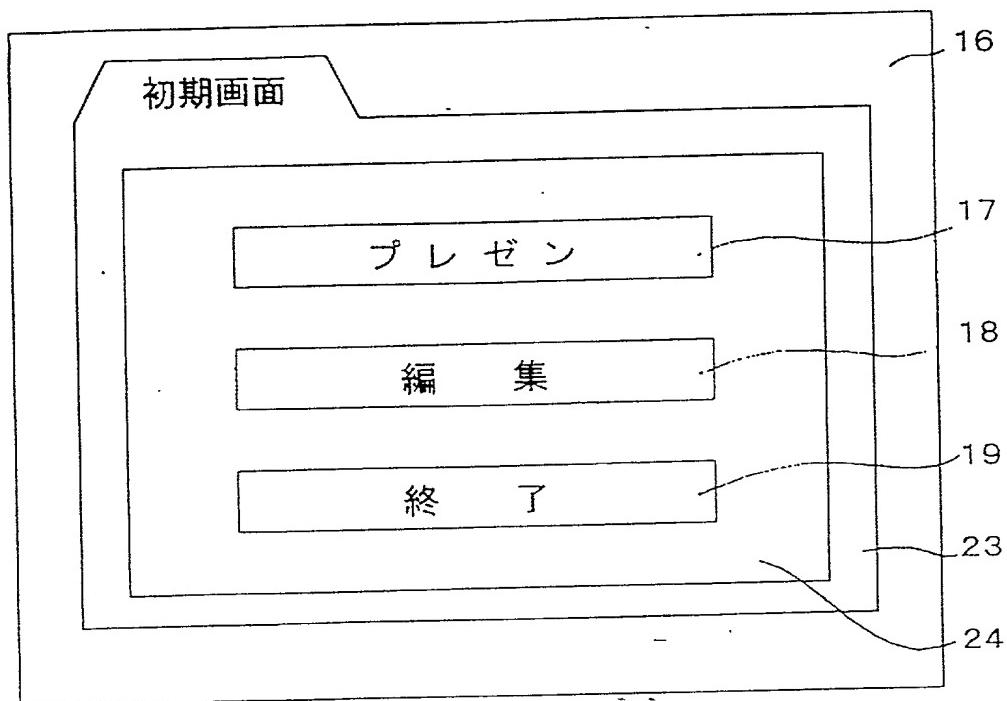


Fig. 14

【図6】

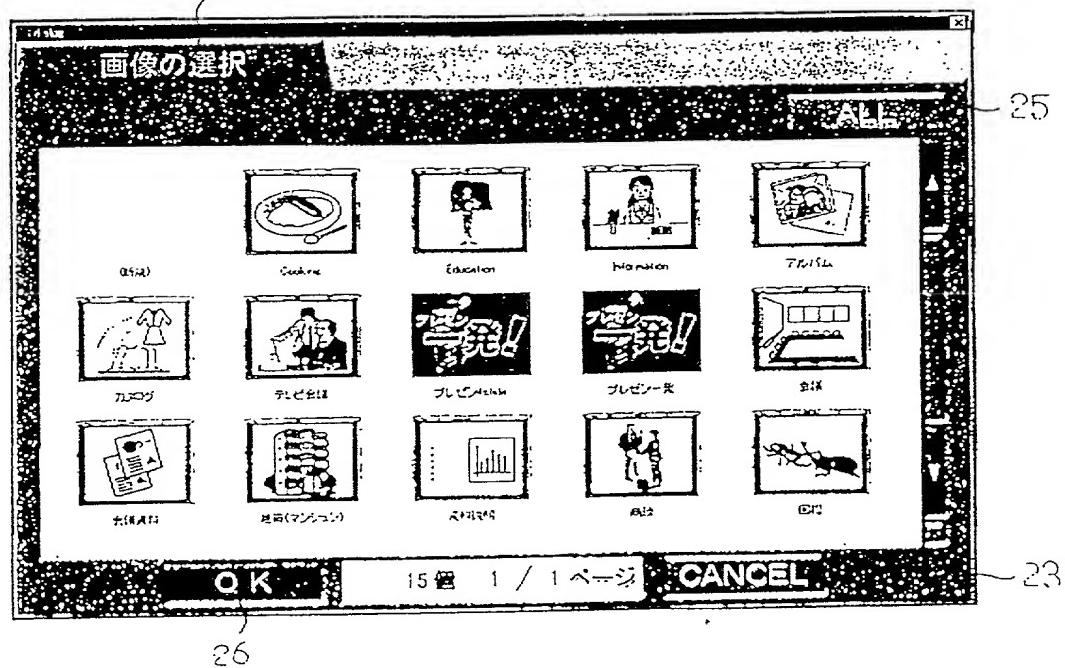


Fig. 15

【図7】

[書類名] 図面
[特許] 410280885

[受付日] 平10.10.02

12
頁: 6/8
14

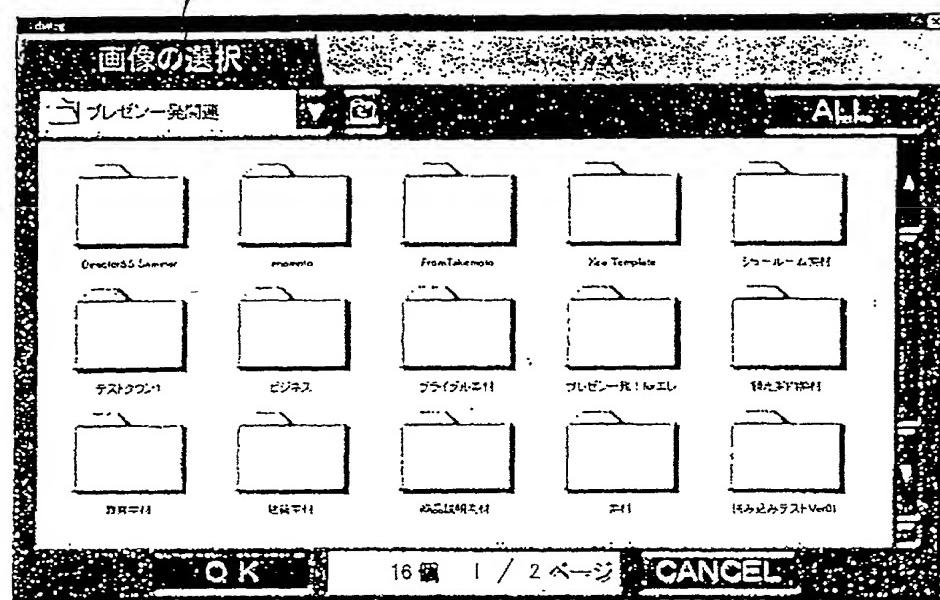


Fig. 16

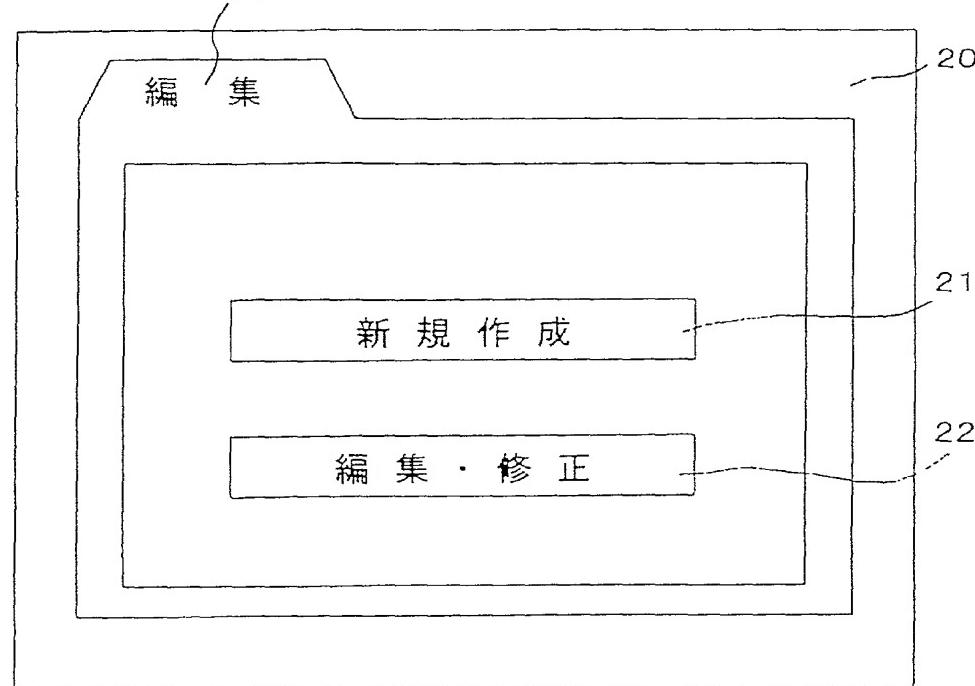


Fig. 17

【図9】

[書類名] 図面
[特許] 410280885

[受付日] 平10.10.02

13.
頁: 7/8
15

A
素材フォルダ

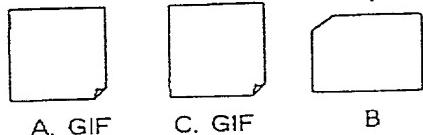


Fig. 18

B
Bフォルダ

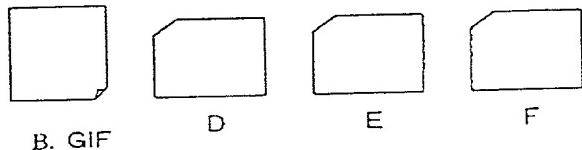
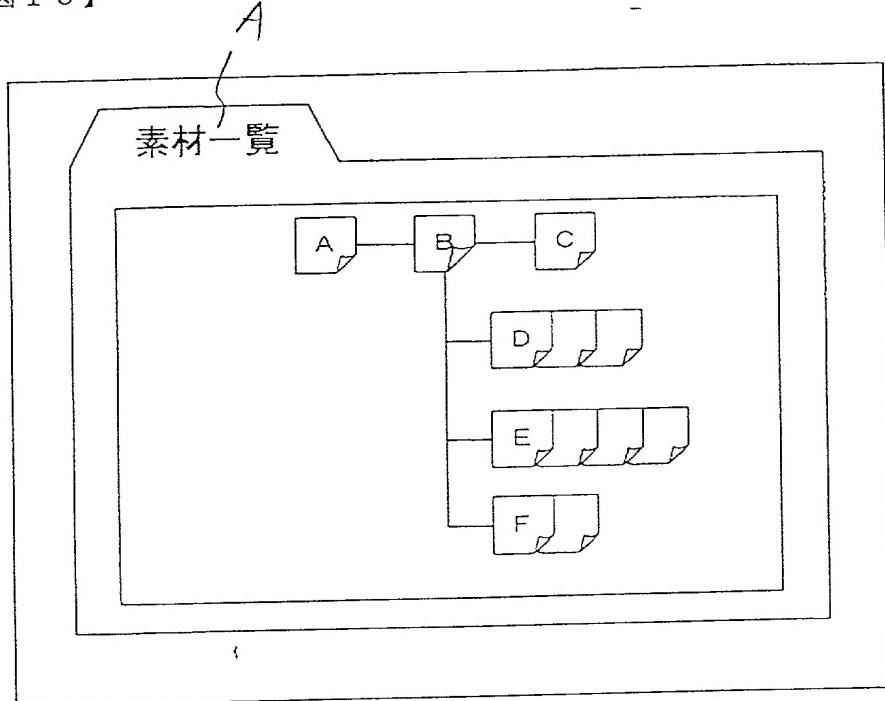


Fig. 19

【図10】



【図11】

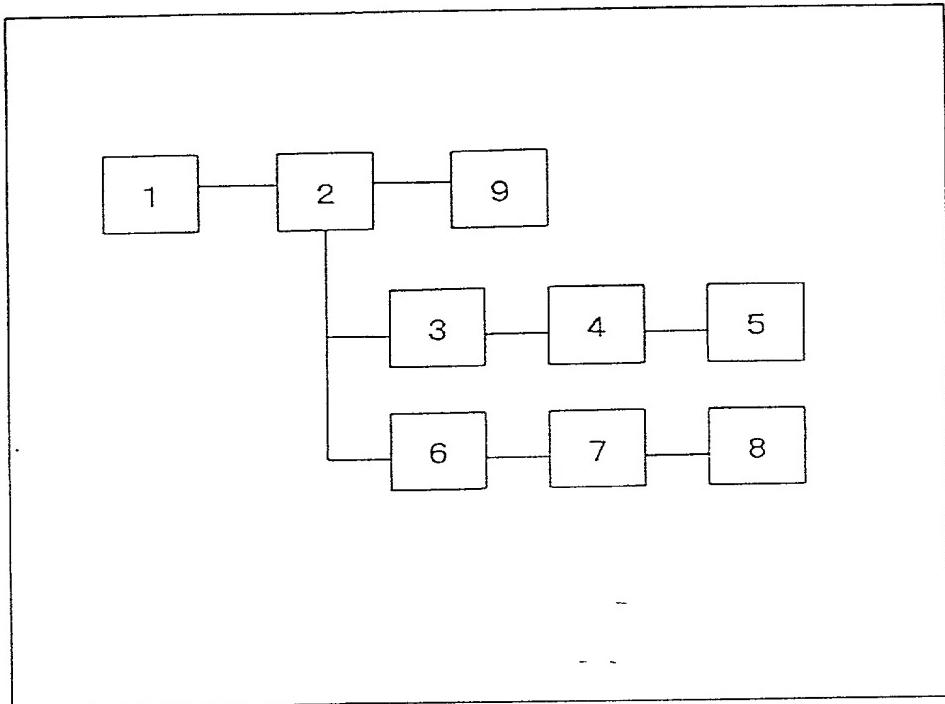


Fig. 2

Declaration For U.S. Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

(Insert Title) IMAGE INFORMATION PRESENTATION SYSTEM, IMAGE INFORMATION PRESENTATION METHOD, MEDIUM STORING IMAGE INFORMATION PRESENTATION SYSTEM PROGRAM, AND SIGNAL THEREFOR

the specification of which is attached hereto unless the following box is checked:

was filed on _____ as PCT International Application
 Number _____ and was amended on _____
 and/or was filed on _____ as United States Application
 Number _____ and was amended on _____

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56.

I hereby claim foreign priority benefits under 35 U.S.C. §119(a)-(d) or §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below any foreign application for patent or inventor's certificate or PCT International Application having a filing date before that of the application(s) for which priority is claimed:

(List prior foreign applications. See note A on back of this page)	<u>P.Hei.10-280884</u> (Number)	<u>Japan</u> (Country)	<u>02/October/1998</u> (Day/Month/Year Filed)	Priority Claimed <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<u>P.Hei.10-280885</u> (Number)	<u>Japan</u> (Country)	<u>02/October/1998</u> (Day/Month/Year Filed)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	<u> </u> (Number)	<u> </u> (Country)	<u> </u> (Day/Month/Year Filed)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

I hereby claim the benefit under 35 U.S.C. §119(e) of any United States provisional application(s) listed below.

<u> </u> (Application Number)	<u> </u> (Filing Date)
<u> </u> (Application Number)	<u> </u> (Filing Date)

See attached list for additional prior foreign or provisional applications.
 (See Note B on back of this page)

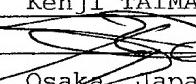
I hereby claim the benefit under 35 U.S.C. §120 of any United States application(s) or §365(c) of any PCT International application(s) designating the United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior application(s) (U.S. or PCT) in the manner provided by the first paragraph of 35, U.S.C. §112, I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

(List prior U.S. Applications or PCT International applications designating the U.S.)	<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented, pending, abandoned)
	<u> </u> (Application Serial No.)	<u> </u> (Filing Date)	<u> </u> (Status) (patented, pending, abandoned)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Sept. 27, 1999

Date

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Full name of sixth joint inventor, if any _____
Inventor's signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____

Full name of seventh joint inventor, if any _____
Inventor's signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____

Full name of eighth joint inventor, if any _____
Inventor's signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____

Full name of ninth joint inventor, if any _____
Inventor's signature _____ Date _____
Residence _____
Citizenship _____
Post Office Address _____